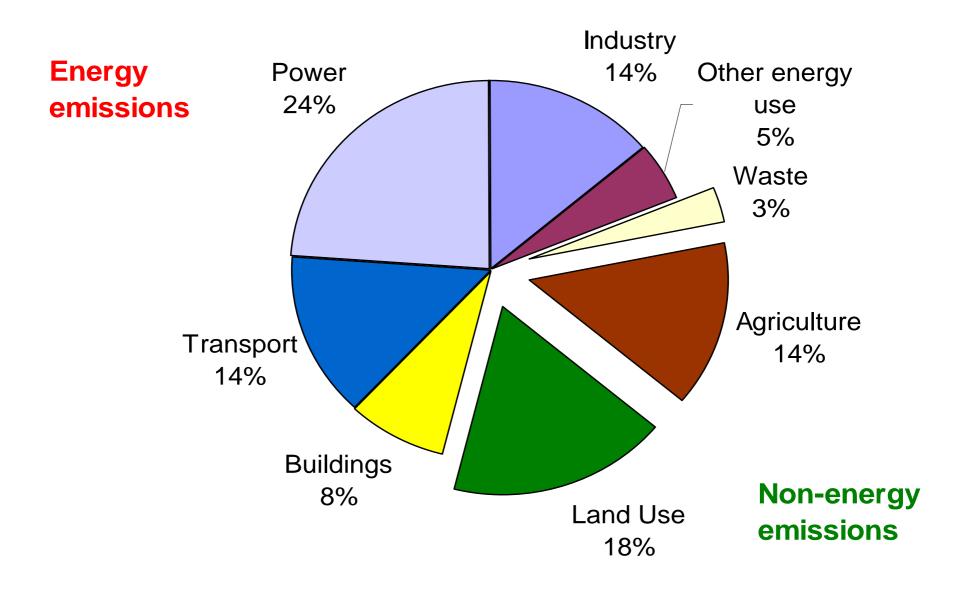
The International Union for Conservation of Nature



The role of forest landscape restoration in addressing climate change



Stewart Maginnis



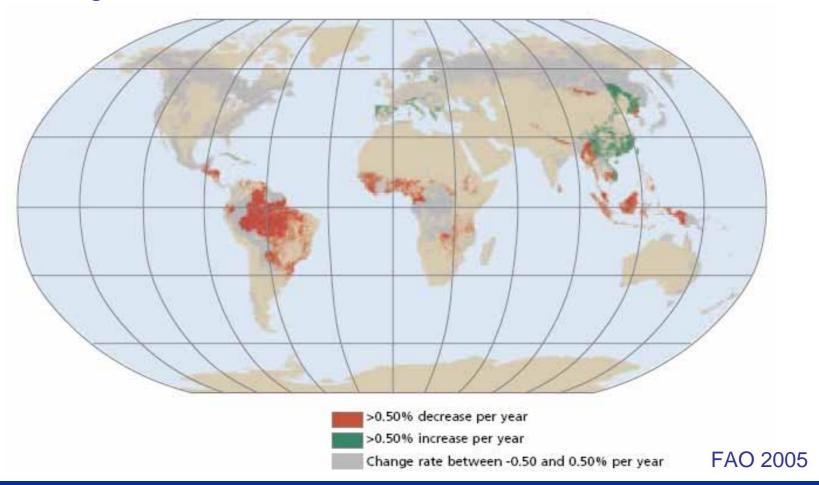
Greenhouse gas emissions 2000

Source Stern review 2006

Forests and Climate Change



Net changes in forest area 2000-2005





What is at stake?

- Sukbdev estimates USD 2 5 trillion natural forest capital lost each year
- Stern estimates USD 5 15 billion per year to cut deforestation rates by half!

But...

- GEF invests USD 100 million in forests per year
- Certified forest products annually= USD 120 million
- ODA investments in forest protection = USD 800 million
- NGO investments in forest conservation = USD 1.2 billion (source Coalition of Rainforest Nations)

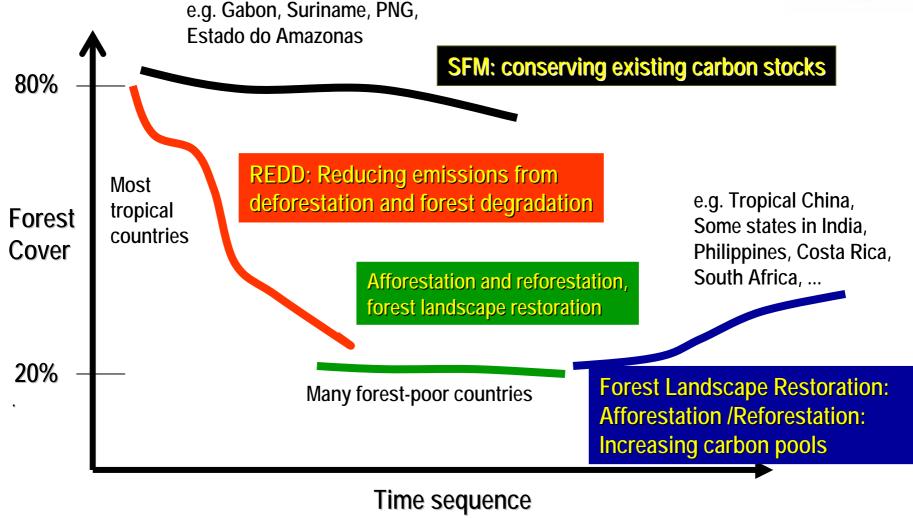
• So..

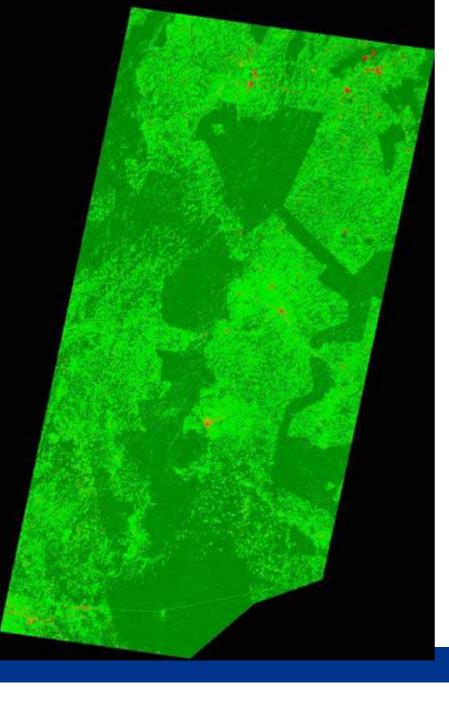
• In theory, REDD payments could make up the difference



Tropical countries' forest endowment: Distinct situations, different approaches







Appropriate strategies will change over time!

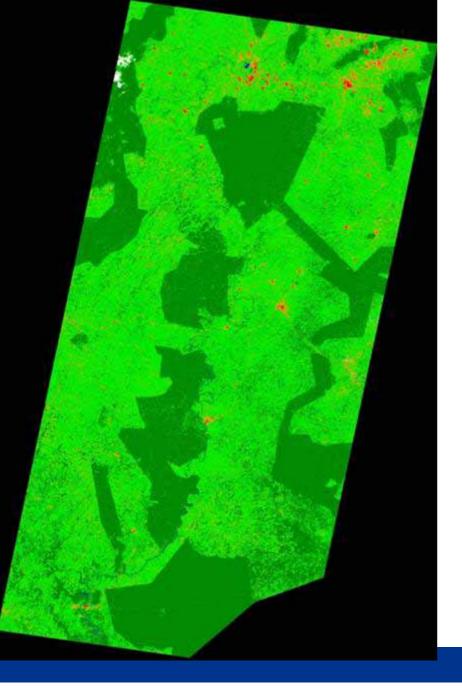


CASE STUDY: Western Region, GHANA

1986

Accuracy: 94 %





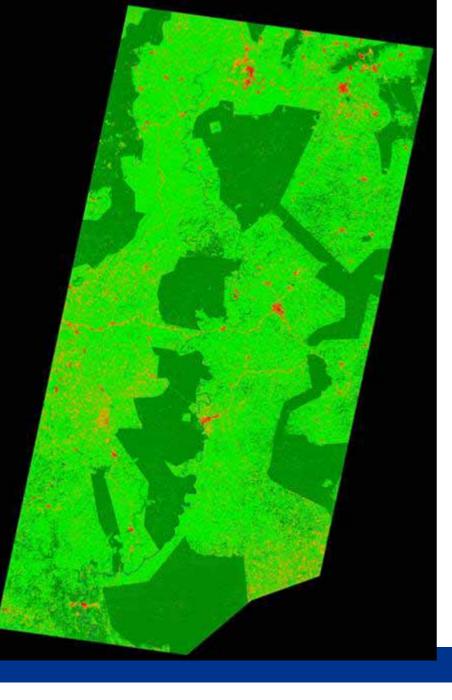


Approximately 2% per year

2000

Accuracy: 88%





Little forest left outside gazetted forest reserves –



fewer opportunities to avoid deforestation

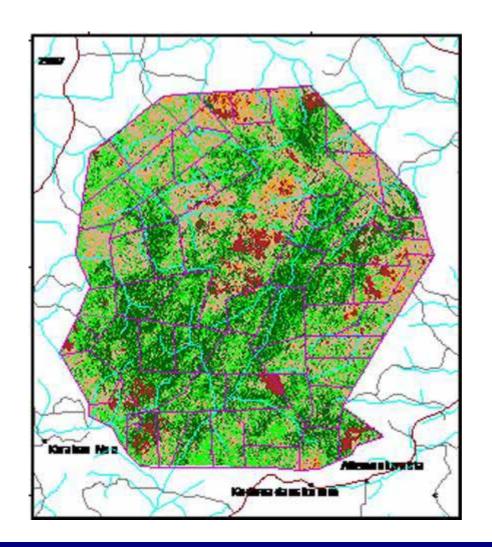
2007

Accuracy: 90 %

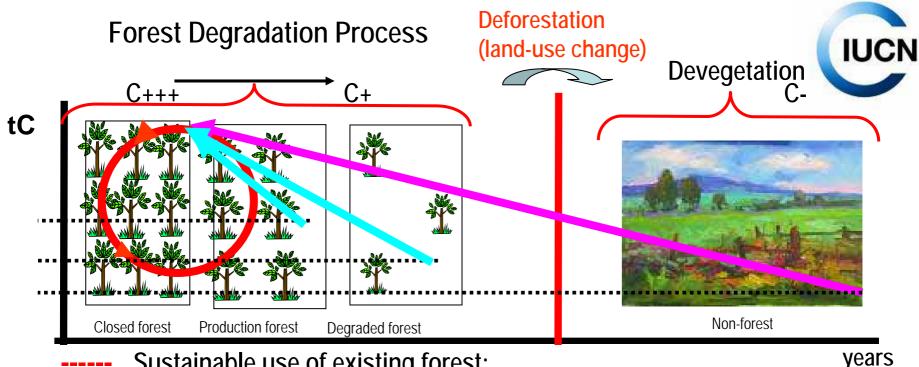


So perhaps the focus should shift to restoring degraded forest lands





Dome River Forest Reserve 2007



Sustainable use of existing forest:

RED(D)→ About 77 GtCO2e until 2030

Plantations & Agroforestry: Carbon sequestration

→ included in A/R CDM

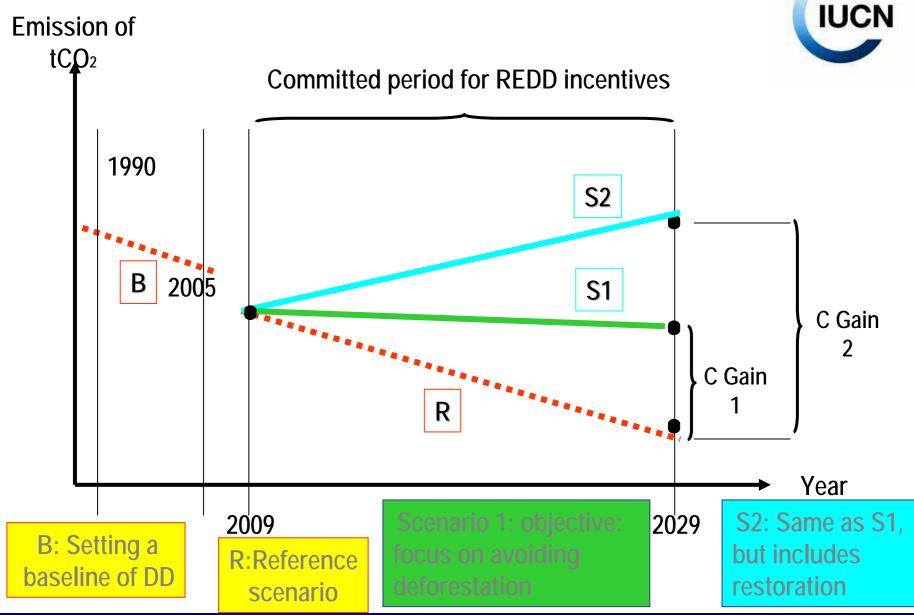
→ min. 18.7 GtCO2e up to 2030

Forest Restoration on degraded forest lands:

→ Not clearly considered as a mitigation option yet

→ estimated at 117 GtCO2e up to 2030

A REDD /forest restoration model



Forests and Climate Change



KEY MESSAGE

 The potential contribution that a multifunction, multiple value forest resource can make to climate change <u>WILL</u> <u>SELDOM BE FULLY REALISED</u> unless "REDD-type" arrangements include measures to halt and reverse forest degradation.

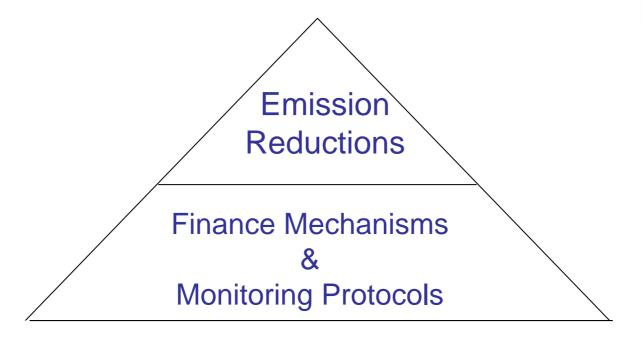
WARNING: Forests are more than sticks of carbon!





.. and simple carbon solutions may not even deliver mitigation benefits





Other Challenges



- Payments for ecosystem services (such as carbon) appealing at the global level but it is at the national and sub-national level that the real challenges emerge:
- How to avoid creating perverse incentives for forest owners? E.g. early schemes in NZ effectively "nationalized" carbon and slowed the rates of private tree planting
- How to ensure that payments fairly benefit forest managers, forest owners and forest communities?
- Similar approaches needed to address these whether the focus is REDD or FLR

Getting started

- Build on in-country capacity aimed at improving basic governance and complement processes designed to address degradation
- Participation of forest dependent communities and appropriate benefit sharing mechanisms
- Support national processes aimed at reviewing and clarifying forest rights & tenure
- Treat these problems as land-use (not simply forest) issues – involve other departments!
- Take a learning approach.